JS J7, JCW JOSE Update

JNTC Corporate Board

September, 2012

COL Mark Edgren

Technical Solutions Officer

Mandate for Change

JTE

A

Why Change?

- Operating & Sustainment Costs
- Joint Force 2020
- Keep pace with the operating environment
- 2012 National Defense Authorization Act (NDAA)
- DOD CIO Enterprise IT Strategy & Cloud Strategies
- Joint Information Environment (JIE)
- CE2T2 Program Goals and Objectives (PG&O)
  - Systems Engineering Plan
  - Network Services / Enterprise Services

Mandate for Change

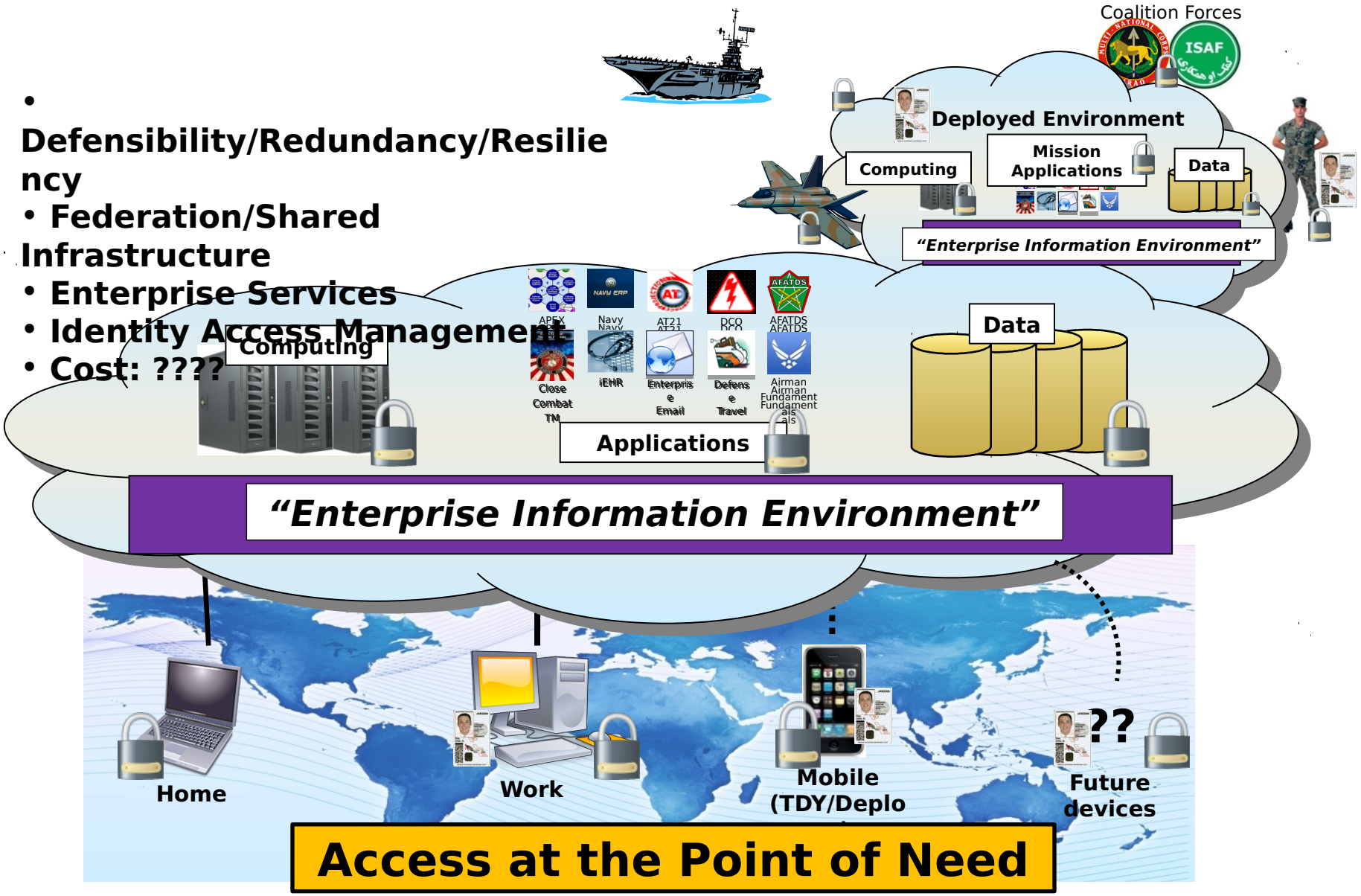
How?

- Instead of Stovepiped Efforts . . .
  Joint Training **<u>Enterprise</u>** Architecture
  "…..the process of translating business vision and strategy into effective enterprise change"
- Converged infrastructure and shared resources (cloud computing)
- Web 2.0 technologies
- Lean processes
- Requirements-based, risk-managed
- Training Enterprise collaboration/ Unity of Effort
  - Executive Steering Committee

JTEA

JIE End-State

- **Defensibility/Redundancy/Resiliency**
- **Federation/Shared Infrastructure**
- **Enterprise Services**
- **Identity Access Management**
- **Cost: ????**



JIE Working Definition

JIE is a secure joint information environment, comprised of shared information technology (IT) infrastructure, enterprise services, and a single security architecture to achieve full spectrum superiority, improve mission effectiveness, increase security and realize IT efficiencies. JIE is operated and managed per Unified Command Plan (UCP) using enforceable standards, specifications, and common tactics, techniques, and procedures (TTPs).

- *32 Desired Network Characteristics*
- *7 Network Characteristics to Avoid*

Service consensus on definition and characteristics

Joint M&S Way-Ahead

Change Catalysts Many Factors Driving Significant Change to Joint M&S Development ($, OSD Direction, DoD IT Enterprise Guidance, Operational Relevance, etc.)

Current State JLVC 5.X (Latest Release of JLVC) = Pretty Good, But . . . Evolutionary Approach w/ Federated & Integrated Service/Joint Simulations Too Complex & Costly

Last of Breed JLVC 6.0 Releases End of FY13; JLVC 6.X By FY15

Future of Joint M&S Cloud-Enabled Modular Services (CEMS) Framework (JLVC2020)

JLVC2020 New Joint M&S Training Enabler (Fully Mission Capable by FY19), Which Will:

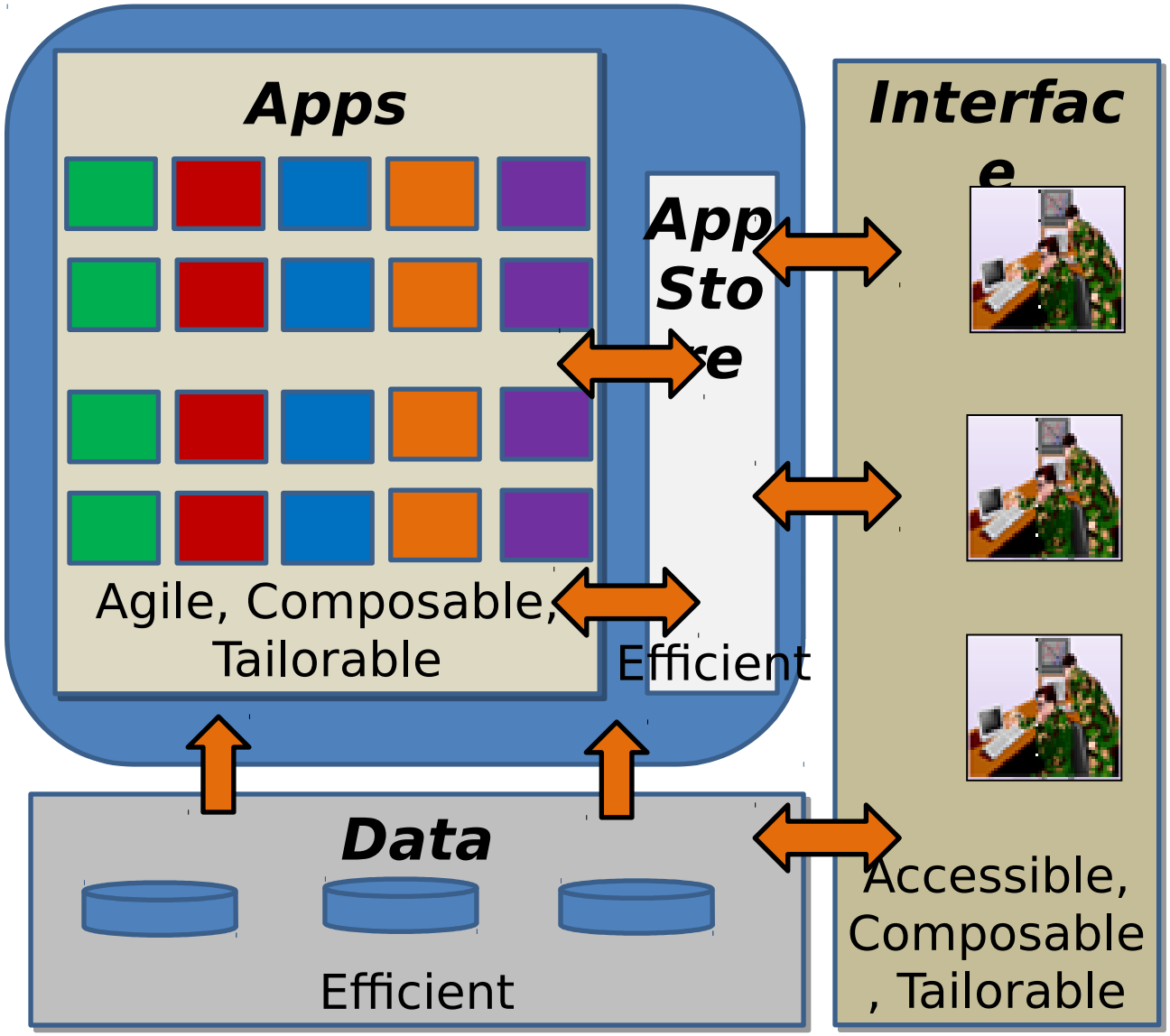
- Cost Less and Be Less Complex to Operate
- Be Discoverable & More Accessible to the Warfighter (Designed for the Cloud)
- Comply w/ DoD Enterprise IT Direction
- Enhance Warfighter's Training Environment (i.e., Cyber, Hybrid Threat, Missile Defense, etc.)
- Support Continuum of Training Fidelity Requirements

Funding $75M +/- of DoD Funding is Planned for JLVC2020 from FY14-FY18

Priority It Will Be the J7's Signature Joint M&S Development Effort

Backup Plan Can't Afford One—Circa FY15, Joint Training Context Will Rely on a Rapidly Decaying JLVC 6.X (Likely 2+ Years of Use Prior to Decay Issues) Until

JLVC-2020 (Operational)



- **Major Components**
  - **Data – Interface - "Apps" -"App Store"**
- **OSD Partnership via MSCO**
  - **Rapid Data Generation Project**
  - **Geospatial Data Correlation**
  - **Force Development Mission Process Modeling in Virtual Environments**
- **Priority of Effort**
  - **Modular service specification**
  - **Data service broker prototype**
  - **Data management schema**
- **What is Different?**
  - **Apps have to work**

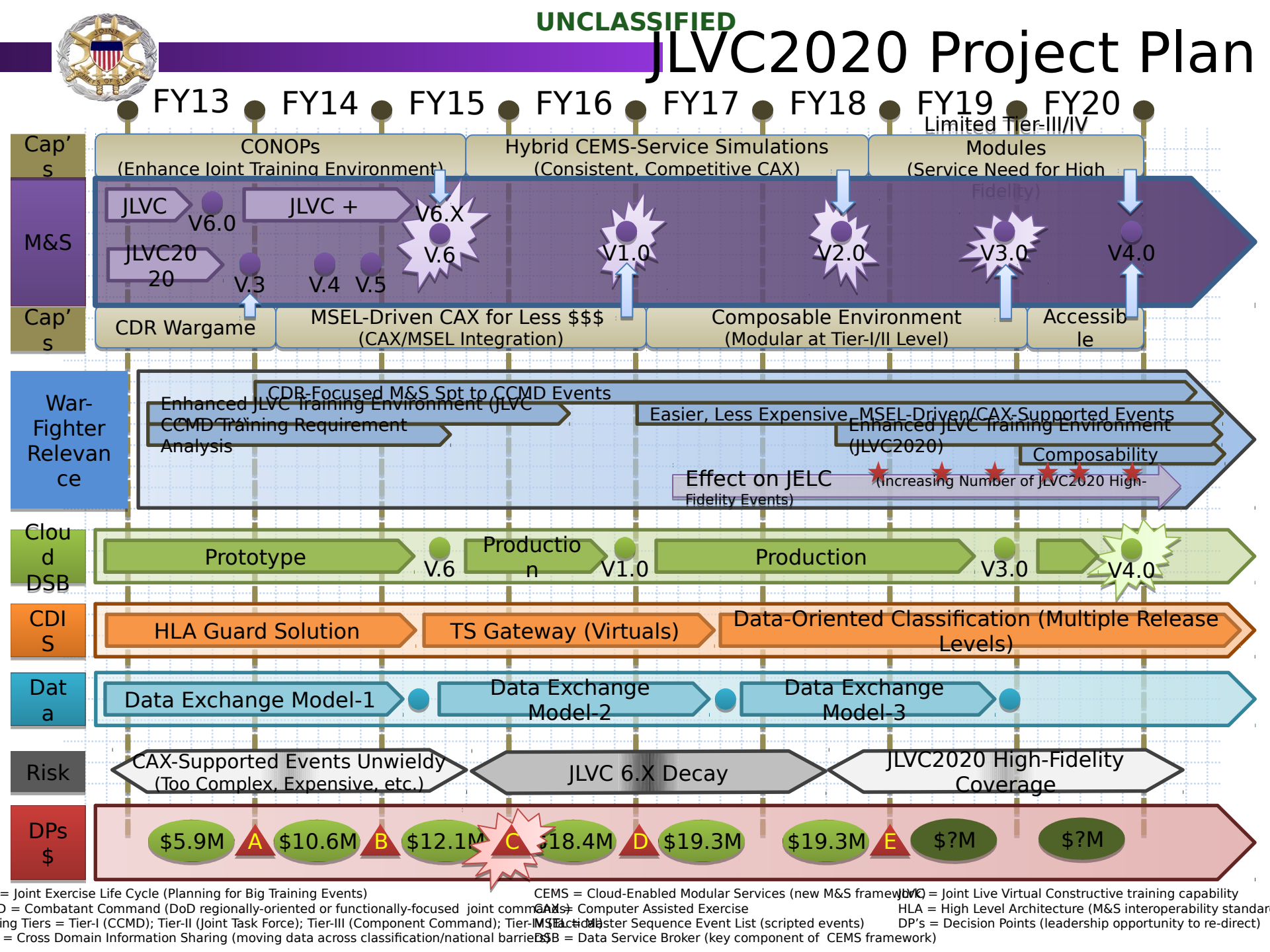
"The Joint Force…will have cutting edge capabilities leveraging our technological, joint, and networked advanta

Cover Memo, DoD Strategic Guidance, Janura

Must deliver at speed

UNCLASSIFIED

JLVC2020 Project Plan



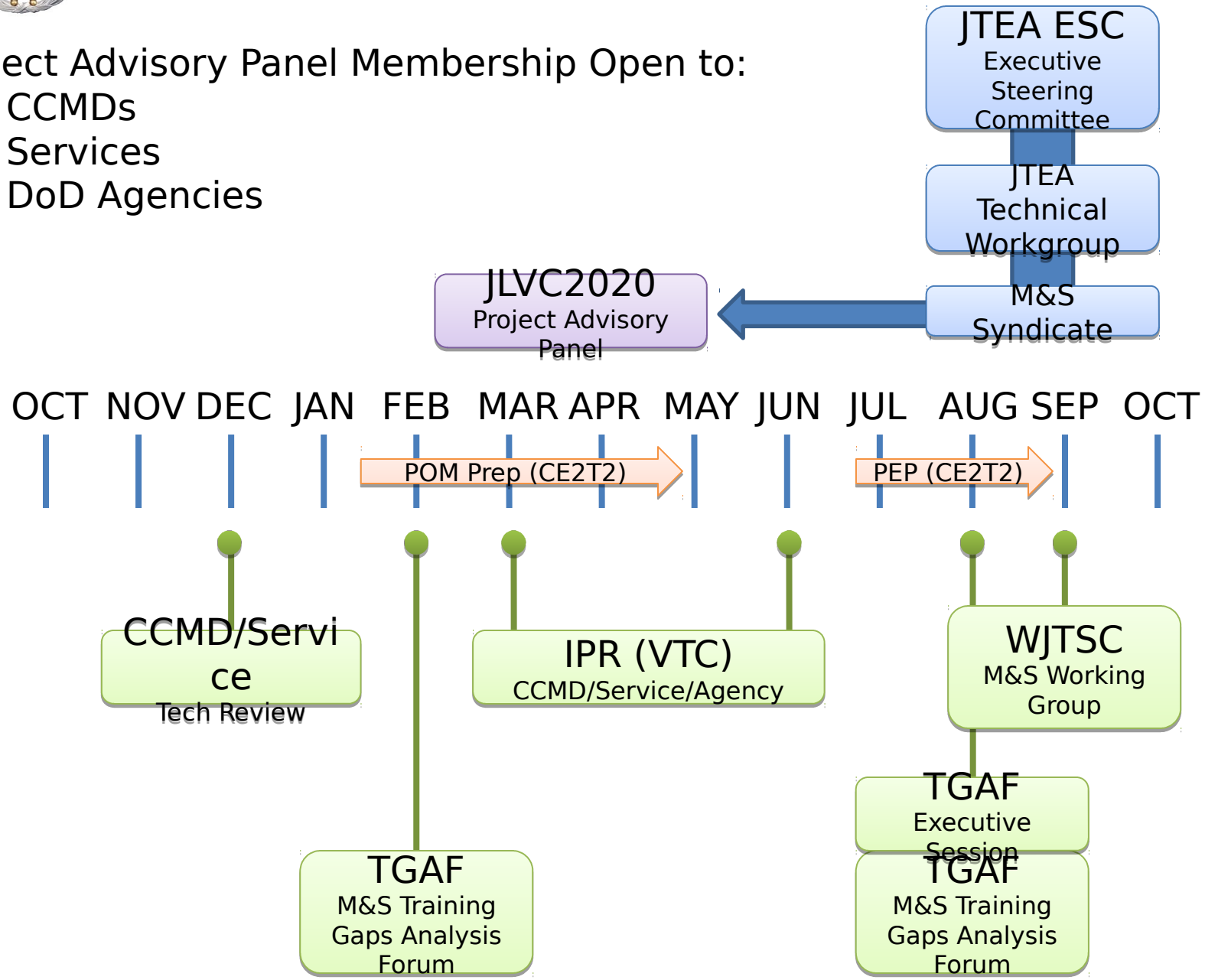
= Joint Exercise Life Cycle (Planning for Big Training Events)
D = Combatant Command (DoD regionally-oriented or functionally-focused joint commands)
ing Tiers = Tier-I (CCMD); Tier-II (Joint Task Force); Tier-III (Component Command); Tier-IV (Tactical)
= Cross Domain Information Sharing (moving data across classification/national barriers)

CEMS = Cloud-Enabled Modular Services (new M&S framework)
CAX = Computer Assisted Exercise
MSEL = Master Sequence Event List (scripted events)
DSB = Data Service Broker (key component of CEMS framework)

JLVC = Joint Live Virtual Constructive training capability
HLA = High Level Architecture (M&S interoperability standar
DP's = Decision Points (leadership opportunity to re-direct)

JLVC2020 Governance

- Project Advisory Panel Membership Open to:
  - CCMDs
  - Services
  - DoD Agencies



JS J7, JCW JOSE Update

JNTC Corporate Board

September, 2012

COL Mark Edgren

Technical Solutions Officer